FIG. 1

OVERALL CONFIGURATION OF AN ELECTROPHOTOGRAPHIC SYSTEM

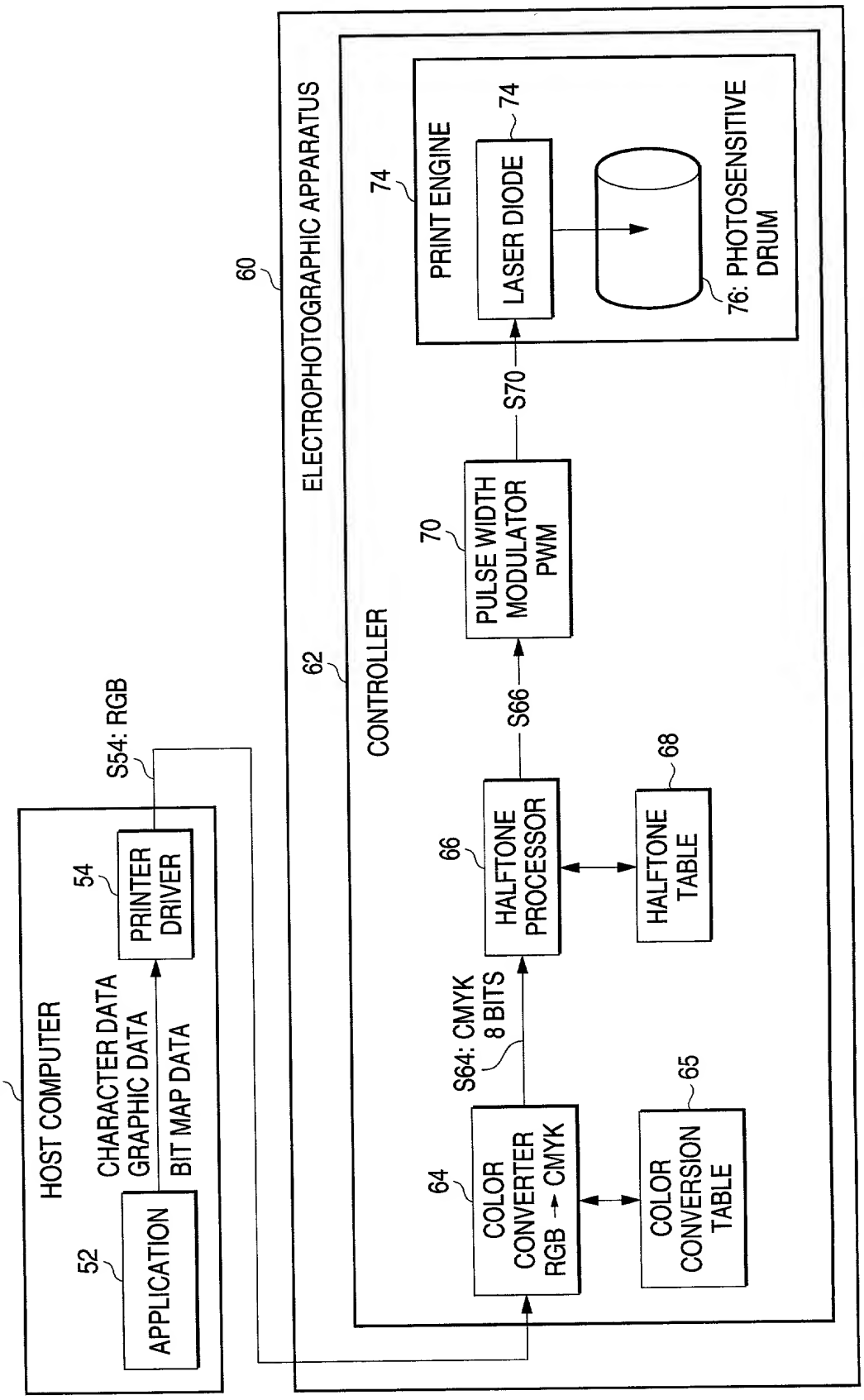

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FIG. 2

EXAMPLE HALFTONE TABLE

S64: INPUT DATA
(TONE DATA)

P_{00}	P_{01}	P_{02}	P_{03}	
P_{10}	P_{11}	P_{12}	P_{13}	
P_{20}	P_{21}	P_{22}	P_{23}	
P_{30}	P_{31}	P_{32}	P_{33}	

21: PATTERN MATRIX

7	5	3	8
3	1	1	6
5	2	2	4
7	4	6	8

22: INDEX MATRIX
(A TONE FOR A PATTERN RELATIVE TO PULSE WIDTH)

TONE	1	2	3	4	5	6	7	8
0 ~ 63	0 ~ 255	0 ~ 255	0 ~ 0	0 ~ 0	0 ~ 0	0 ~ 0	0 ~ 0	0 ~ 0
64 ~ 127	255 ~ 255	255 ~ 255	0 ~ 255	0 ~ 255	0 ~ 0	0 ~ 0	0 ~ 0	0 ~ 0
128 ~ 191	255 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	0 ~ 255	0 ~ 255	0 ~ 0	0 ~ 0
192 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	0 ~ 255	0 ~ 255

FIG. 3

CONVERSION TABLES FOR A CONVENTIONAL COLOR CONVERTER AND A HALFTONE PROCESSOR

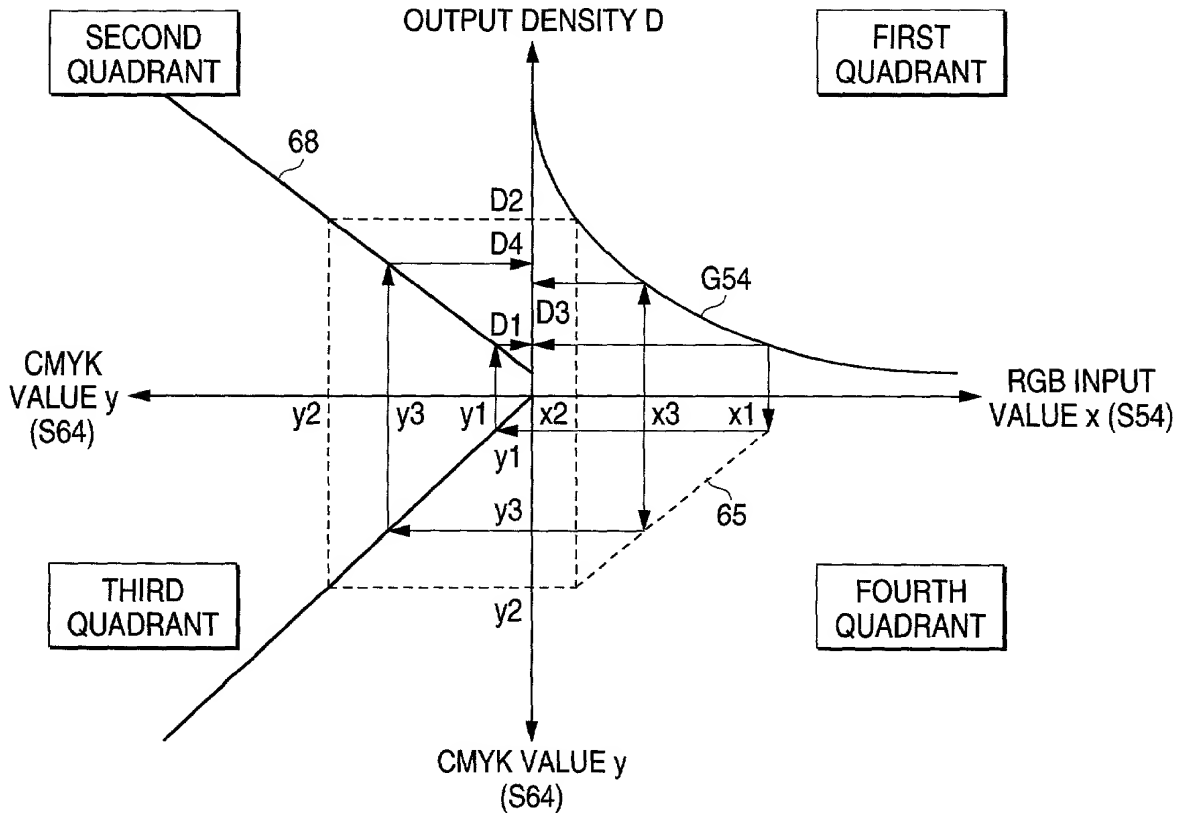

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FIG. 4

CONVERSION TABLES FOR A COLOR CONVERTER AND A HALFTONE PROCESSOR

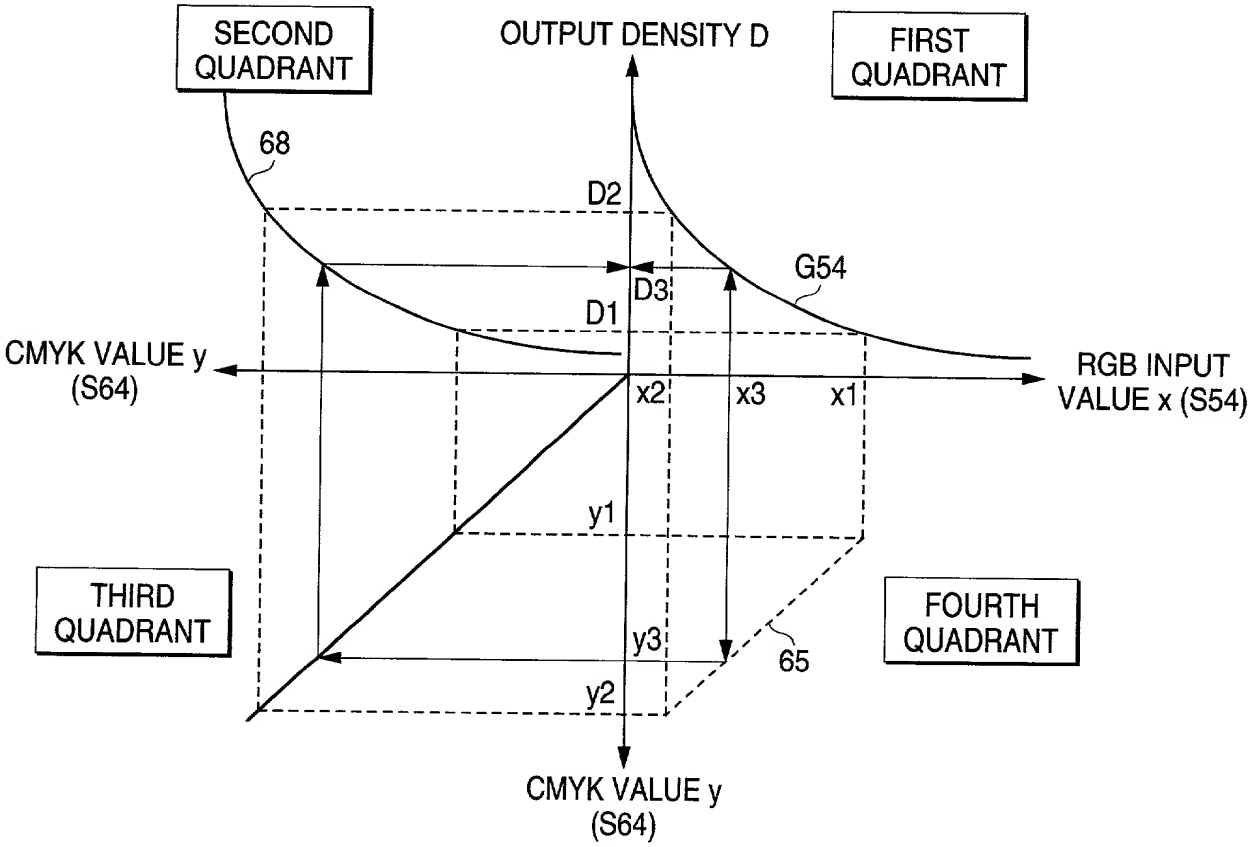


FIG. 5

OVERALL CONFIGURATION OF AN ELECTROPHOTOGRAPHIC SYSTEM

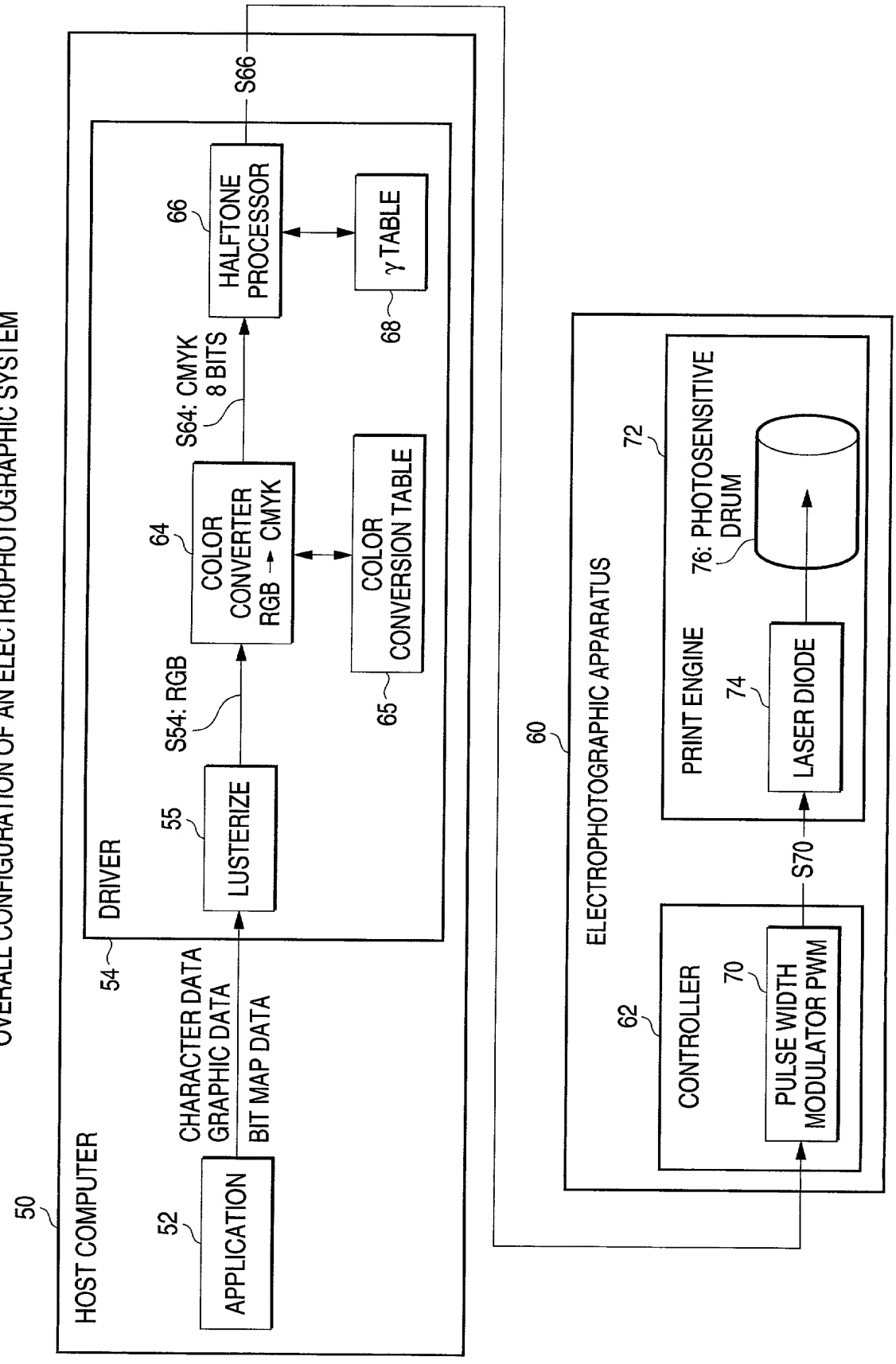


FIG. 6

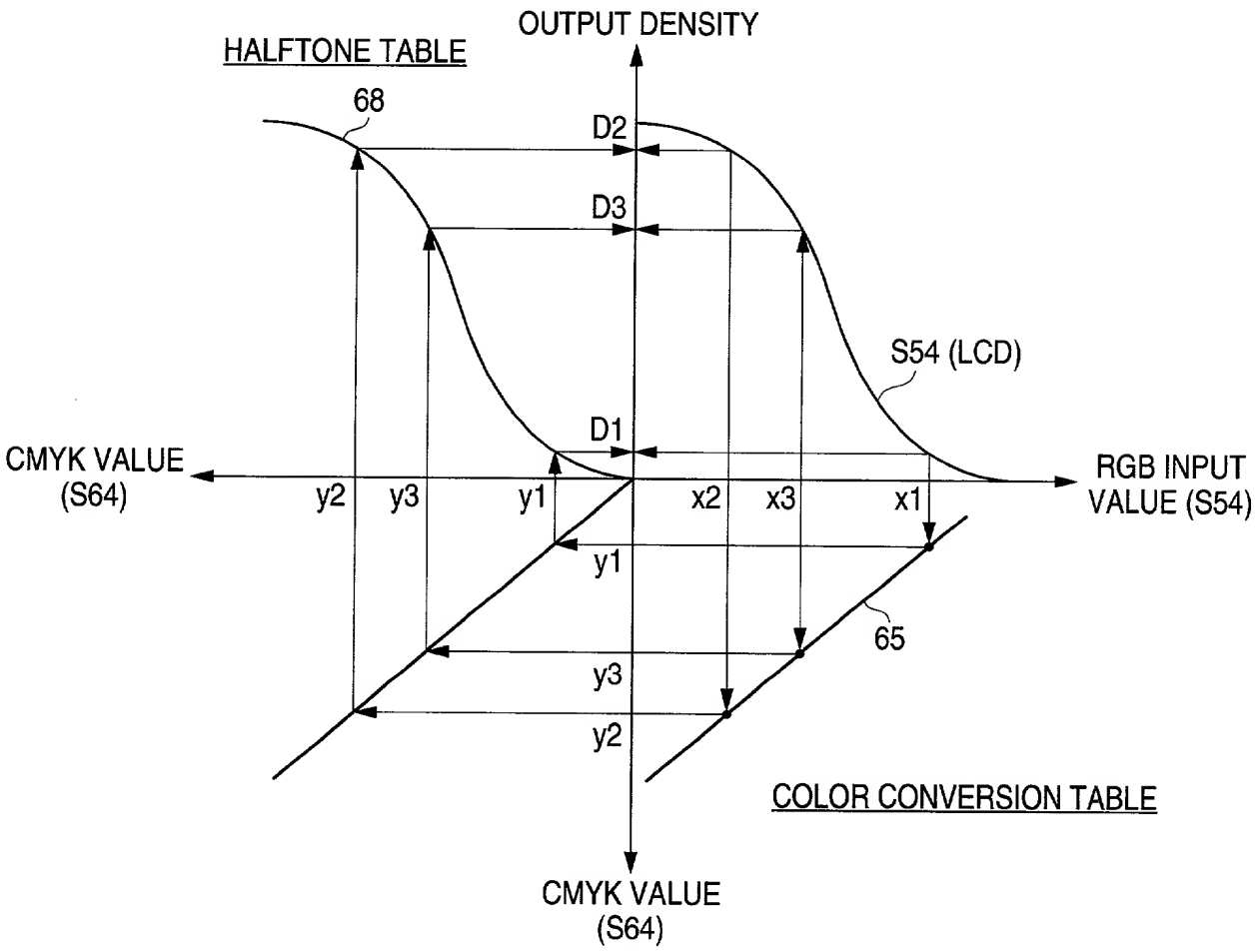

WHEN RGB IS USED FOR LCD
OUTPUT DENSITY
HALFTONE TABLE
68
D2
D3
S54 (LCD)
D1
CMYK VALUE
(S64)
y2
y3
y1
x2
x3
x1
RGB INPUT
VALUE (S54)
y1
65
y3
y2
COLOR CONVERSION TABLE
CMYK VALUE
(S64)

FIG. 7

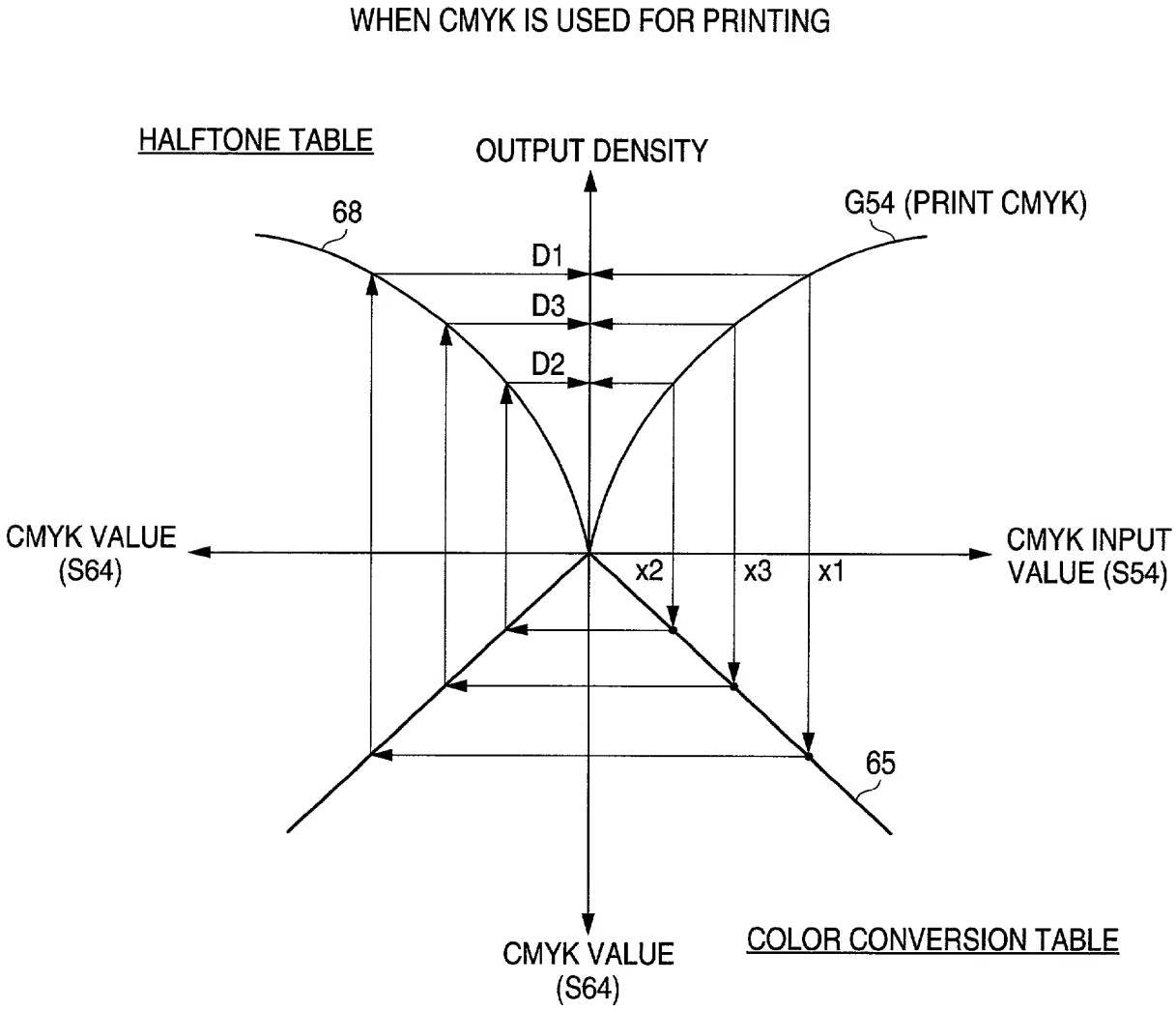

WHEN CMYK IS USED FOR PRINTING
HALFTONE TABLE
OUTPUT DENSITY
68
G54 (PRINT CMYK)
D1
D3
D2
CMYK VALUE
(S64)
CMYK INPUT
VALUE (S54)
x2
x3
x1
65
CMYK VALUE
(S64)
COLOR CONVERSION TABLE

FIG. 8

WHEN CIELab IS USED

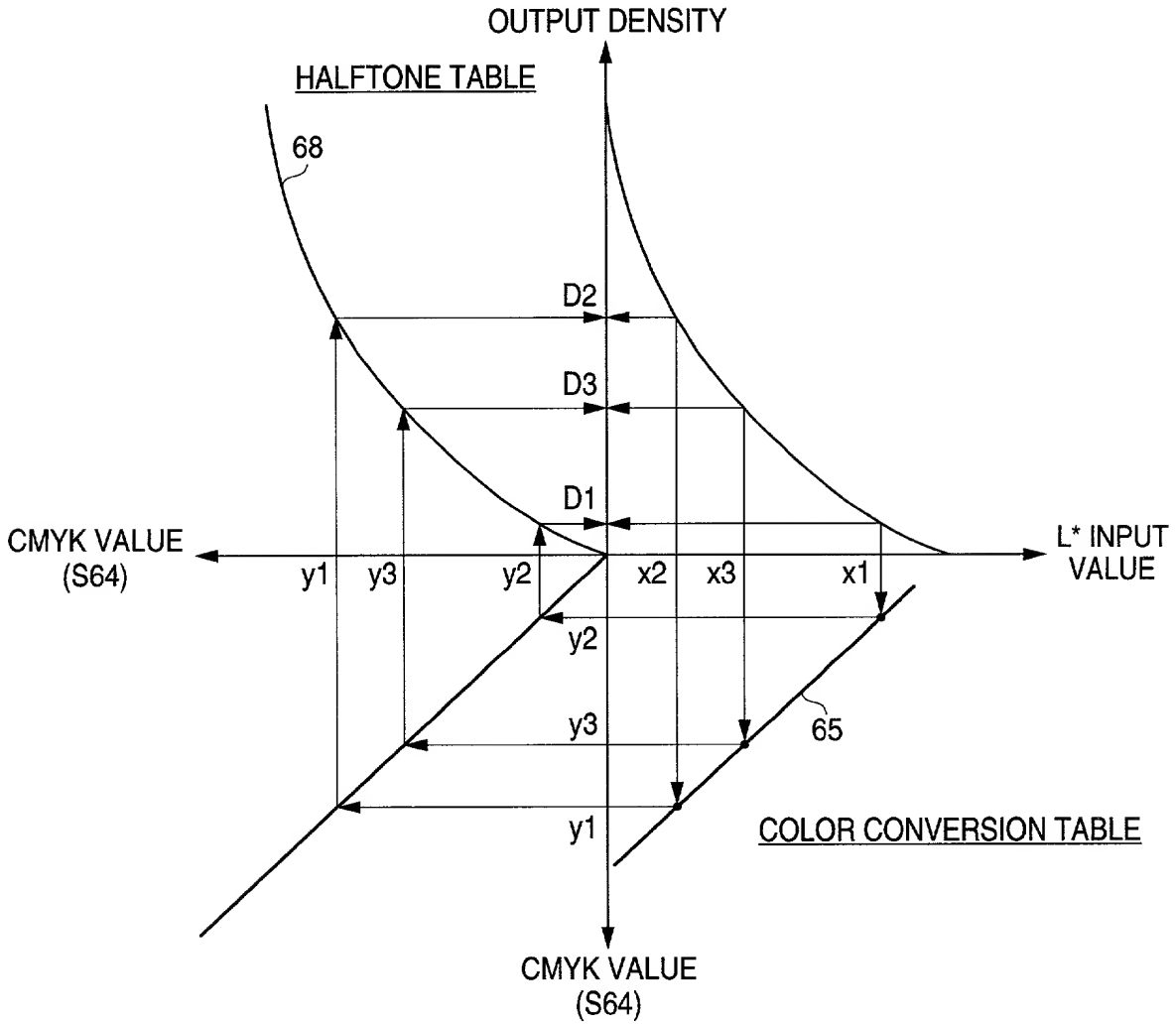


FIG. 9

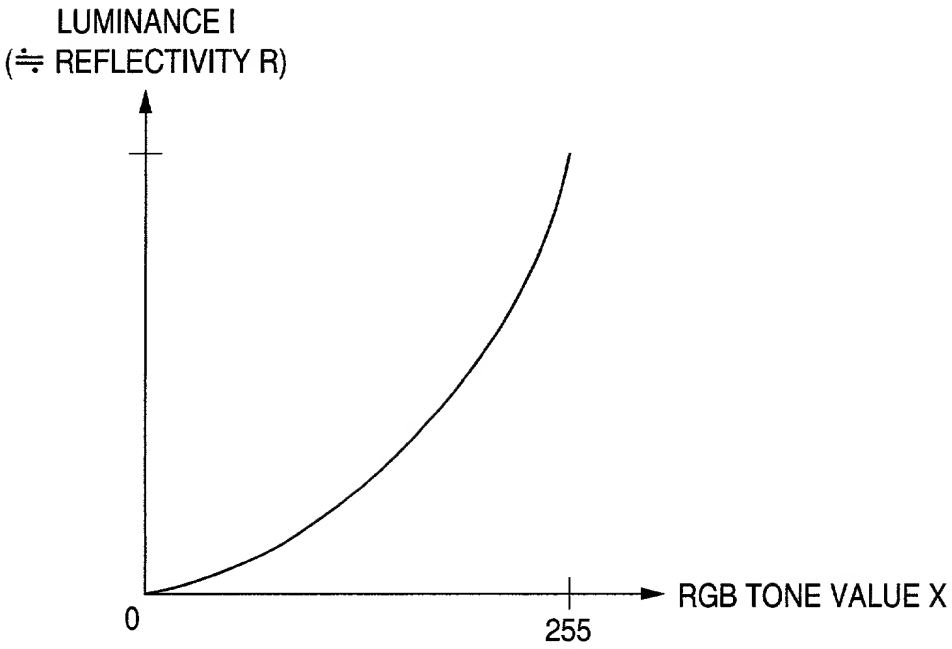
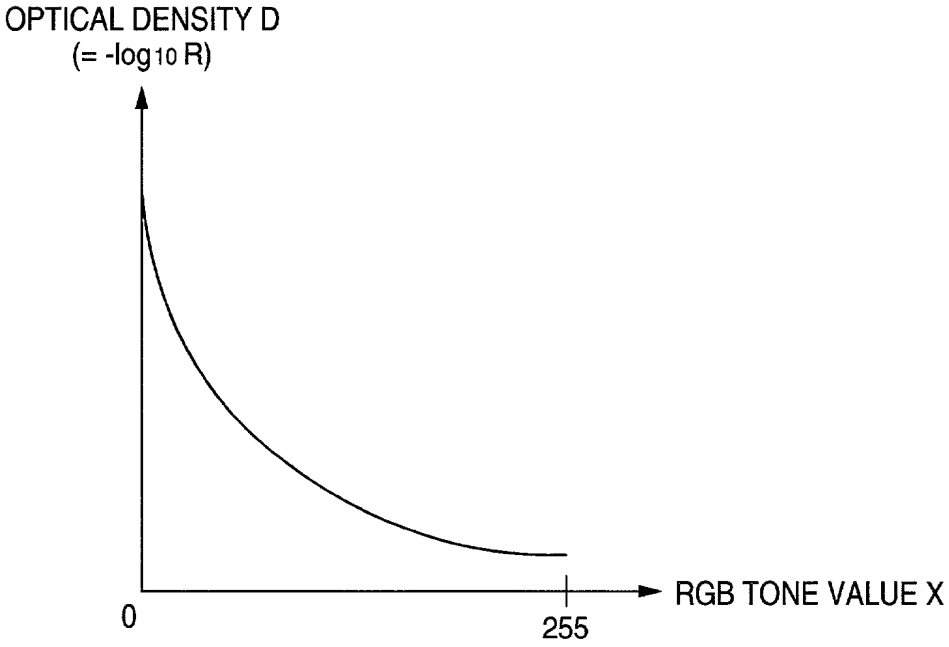

LUMINANCE I
(≒ REFLECTIVITY R)
RGB TONE VALUE X
0
255

FIG. 10


OPTICAL DENSITY D
(= -log10 R)
RGB TONE VALUE X
0
255